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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,720	02/27/2004	Masahiro Yamamoto	KIOI:039	6791
ROSSI & ASS	7590 04/10/2007 OCIATES	EXAMINER		
P.O. BOX 826		JOHNSON, VICKY A		
ASHBURN, V	'A 20146-0826		ART UNIT	PAPER NUMBER
			3682	**
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Comment	10/788,720	YAMAMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vicky A. Johnson	3682				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be tiviliapply and will expire SIX (6) MONTHS from cause the application to become ABANDON	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
' <u> </u>	<del>_</del>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·						
Disposition of Claims						
4) Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	b)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7)⊠ Claim(s) <u>5</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	-				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicat	tion No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment/o\						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🗖 Internious Summer	(PTO 412)				
1) Motice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal					
Paper No(s)/Mail Date 6)  Other:						

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#### **DETAILED ACTION**

### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Claim Objections

2. Claim 5 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from another multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claim has not been further treated on the merits.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamuro et al (US 4,589,071).

Yamamuro et al disclose a shift control comprising: shift control means (300) for controlling the shift actuator (110); speed detecting means (302) for detecting a speed of the vehicle; downshift detecting means for detecting a downshift of the belt-type continuously variable transmission (col. 17 lines 4-27), and idle state detecting means for detecting an idle state of the engine (col. 22 lines 26-66), wherein when a speed detected by the speed detecting means is less than a first predetermined speed, the downshift detecting means detects the downshift, and the idle state detecting means

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does not detect the idle state of the engine, the shift control means limits an operating speed of the shift actuator (col. 22 line 67 – col. 23 line 64).

Re claim 2, an intermediate target gear ratio is set between the actual target gear ratio and the target gear ratio, the intermediate target gear ratio being gradually brought close to the target gear ratio; the shift control means controls the shift actuator so that the actual gear ratio reaches the intermediate target gear ratio, and the downshift detecting means detects the downshift when there is a difference more than a predetermined value between the intermediate target gear ratio and the actual gear ratio (col. 25 lines 1-19).

Re claim 3, the shift control means lowers an operating speed of the shift actuator when a speed detected by the speed detecting means is less than an upshift determination vehicle speed (col. 10 line 30 – col. 11 line 14).

Re claim 4, gear ratio comparing means for comparing the actual gear ratio and the target gear ratio (col. 17 line 51 – col. 20 line 45), wherein when the speed detected by the speed detecting means is equal to or more than the second predetermined speed, the downshift detecting means detects a finish of the downshift, and the gear ratio comparing means determines that the actual gear ratio is closer to a Lo side relative to the target gear ratio, the shift control means finishes limitation of the operating speed of the shift actuator (col. 18 line 54 – col. 20 line 39).

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#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4,557,706	Tanaka et al	(shift control)
4,782,934	Takano et al	(shift control)
5,218,540	Ishikawa et al	(shift control)
6,494,808	Lee	(shift control)
7,112,154	Wakahara et al	(shift control)
7,104,907	Jozaki et al	(shift control)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (571) 272-7106. The examiner can normally be reached on Monday-Friday (7:00a-3:30p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6217. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Vicky 4. Johnson Primary Examiner Art Unit 3682